

Redmine - Defect #24433

The changeset display is slow when changeset_issues has very many records

2016-11-22 14:27 - Hirokazu Onozato

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	Performance	Estimated time:	0.00 hour
Target version:	3.4.0	Affected version:	3.3.0
Resolution:	Fixed		

Description

In issue page, the changeset display is slow when changeset_issues has very many records.

The following query is executed.

```
SELECT
  `changesets`.*
FROM
  `changesets`
  INNER JOIN `repositories`
    ON `repositories`.`id` = `changesets`.`repository_id`
  INNER JOIN `projects`
    ON `projects`.`id` = `repositories`.`project_id`
  INNER JOIN `changesets_issues`
    ON `changesets`.`id` = `changesets_issues`.`changeset_id`
WHERE
  `changesets_issues`.`issue_id` = 1
...
```

There is no INDEX in issue_id of changesets_issues table.

```
- db/schema.rb
  create_table "changesets_issues", id: false, force: :cascade do |t|
    t.integer "changeset_id", null: false
    t.integer "issue_id", null: false
  end

  add_index "changesets_issues", ["changeset_id", "issue_id"], name: "changesets_issues_ids", unique: true, using: :btree
```

As a result, this query may be slow if there are a very many records in the changesets_issues table.

When the number of records in the changesets_issues table was about 1 million, it took 2 or 3 seconds to execute this query. Adding INDEX to issue_id improved the performance of this query to a few milliseconds.

Associated revisions

Revision 16007 - 2016-11-26 10:51 - Jean-Philippe Lang

Adds an index on issue_id to changesets_issues (#24433).

History

#1 - 2016-11-22 15:38 - Toshi MARUYAMA

- Target version set to 3.4.0

#2 - 2016-11-26 10:54 - Jean-Philippe Lang

- Status changed from New to Resolved

- Assignee set to Jean-Philippe Lang

Index added in r16007.

Maybe we should also add an index on changeset_id to speed up the display of related issues on the changeset view. Do you have performance issues on the changeset view too?

#3 - 2016-11-26 16:09 - Hirokazu Onozato

Thank you for fixing.

Maybe we should also add an index on changeset_id to speed up the display of related issues on the changeset view. Do you have performance issues on the changeset view too?

There is no performance problem in changeset view.

Multiple column INDEX of changesets_id and issue_id seems to be used.

#4 - 2016-12-03 09:43 - Jean-Philippe Lang

- Status changed from Resolved to Closed

- Resolution set to Fixed

OK, thanks for your feedback.